(19) 世界知的所有権機関 国際事務局



(43) 国際公開日 2005年1月6日(06.01.2005)

PCT

(10) 国際公開番号 WO 2005/000361

(51) 国際特許分類7: 9/107, 47/10, 47/26, 47/34 A61K 49/00,

(21) 国際出願番号:

PCT/JP2004/009096

(22) 国際出願日:

2004年6月28日(28.06.2004)

(25) 国際出願の言語:

日本語

(26) 国際公開の言語:

日本語

(30) 優先権データ: 特願2003-186493

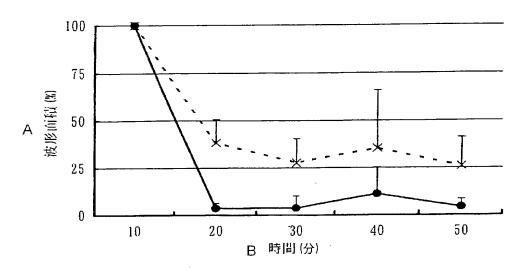
2003年6月30日(30.06.2003)

(71) 出願人 (米国を除く全ての指定国について): 日本製薬 株式会社 (NIHON PHARMACEUTICAL CO., LTD.) [JP/JP]; 〒1010031 東京都千代田区東神田 1-9-8 Tokyo (JP).

- (72) 発明者; および
- (75)発明者/出願人 (米国についてのみ): 濱脇 智度 (HAMAWAKI, Tomonori) [JP/JP]; 〒5988558 大阪府泉 佐野市住吉町26番 日本製薬株式会社 大阪研究所 内 Osaka (JP). 片岡 洋介 (KATAOKA, Yosuke) [JP/JP]; 〒5988558 大阪府泉佐野市住吉町26番 日本製薬株 式会社 大阪研究所内 Osaka (JP). 磯田 貴子 (ISODA, Takako) [JP/JP]; 〒5988558 大阪府泉佐野市住吉町 26番日本製薬株式会社 大阪研究所内 Osaka (JP).
- (74) 代理人: 谷 良隆 (TANI, Yoshitaka); 〒5410047 大阪府 大阪市中央区淡路町2丁目1番13号 弘栄ビルディ ング 3 階 Osaka (JP).
- (81) 指定国 (表示のない限り、全ての種類の国内保護が 可能): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR,

/続葉有/

- (54) Title: MENTHOL-CONTAINING PREPARATION
- (54) 発明の名称: メントール含有製剤



A...WAVE AREA (%)

B...TIME (MIN)

(57) Abstract: It is known that L-menthol soothes smooth muscle motility. In order to use L-menthol in practice as a digestive tract motility soothing agent in digestive tract endoscopy, it is required to devise means of giving a preparation in which an L-mentholcontaining solution remains stable and transparent or little cloudy over a long time after the production and which shows little foaming at the administration. To a smooth muscle motility soothing agent or a digestive tract motility soothing agent containing a relatively transparent L-menthol emulsion having an average particle size of less than 100 nm, a defoaming agent is further added. Thus, it is possible to obtain a preparation which remains stable over a long time, has a high light transmittance and suffers from no foaming in filling into a container or topical administration for, e.g., digestive tract endoscopy, thereby facilitating the observation of a disease

L-メントールに平滑筋蠕動抑制作用のあることは知られているが、これを消化管内視鏡検査時の消化 管蠕動抑制剤として実用に供するためには、L

/続葉有7

INTERNATIONAL SEARCH REPORT

International application No.

			PCT/JP2	004/009096
	ATION OF SUBJECT MATTER A61K49/00, 9/107, 47/10, 47/2	26, 47/34		
According to Inte	ernational Patent Classification (IPC) or to both national	l classification and IPC		·
B. FIELDS SE	ARCHED			
	entation searched (classification system followed by cla			
Int.Cl'	A61K49/00-49/22, 9/00-9/107,	4//00-4//34		
	earched other than minimum documentation to the exter			
		tsuyo Shinan To roku Jitsuyo Sh		1996-2004 1994-2004
JSTPLUS	ase consulted during the international search (name of d S (JOIS), JMEDPLUS (JOIS), CAplus (STN), WPI (DIALOG)	data base and, where pra (STN), REGIST	cticable, search tea RY(STN), M	rms used) EDLINE (STN),
C. DOCUMEN	TS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	propriate, of the relevan	t passages	Relevant to claim No.
A	ASAO, T. et al., An easy meth	od for the in	tra	1-7
	luminal administration of pep before colonoscopy and its ef	permint oil fectiveness i	n ·	
	reducing colonic spasm. Gastr	ointest.Endos	c.,	•
,	2001, 53(2), pages 172 to 177			
A .	MORITA, M. et al., Quantative Structure- Spasmolytic Activity Relationships of Terpenoids and Their Derivatives from Alpinia speciosa, Alpina japonica and Atractylodes lancea. Natural Med., 1998, 52(1), pages 22 to 31		. 1-7	
•				
1				
× Further do	cuments are listed in the continuation of Box C.	See patent fami	ly annex.	
"A" document d	gories of cited documents: efining the general state of the art which is not considered icular relevance	date and not in con		mational filing date or priority ation but cited to understand avention
"E" earlier applie	cation or patent but published on or after the international	considered novel	or cannot be consid	laimed invention cannot be lered to involve an inventive
	which may throw doubts on priority claim(s) or which is ablish the publication date of another citation or other	•	ment is taken alone	laimed invention cannot be
special reaso	on (as specified) eferring to an oral disclosure, use, exhibition or other means	considered to inv	olve an inventive :	step when the document is documents, such combination
"P" document p	ublished prior to the international filing date but later than date claimed	being obvious to a	person skilled in the of the same patent f	art.
	ober, 2004 (06.10.04)	Date of mailing of the 26 Octobe	international sear er, 2004 (2	
	g address of the ISA/	Authorized officer		
Japane:	se Patent Office	· .		
Facsimile No. Form PCT/ISA/21	0 (second sheet) (January 2004)	HMENT F	<u> </u>	· · · · · · · · · · · · · · · · · · ·

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/009096

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Naoki HIKI et al., "Shokakan Naishikyo Kensa ni Okeru Peppermint oil Kan Konai Chokusetsu Sanpu ni yoru Kozendo Koka", Dai 10 Kai Clinical Video Forum(CVF) Program. Shorokushu, 2002, page 73	1-7
А	JP 6-56623 A (Kao Corp.), 01 March, 1994 (01.03.94), (Family: none)	1-7
A	WO 92/06947 A1 (PULITZER ITALIANA S.R.L.), 30 April, 1992 (30.04.92), & AU 9185482 A & EP 552186 A1	1-7
P, Y	WO 03/097026 A1 (NIHON PHARMACEUTICAL CO., LTD.), 27 November, 2003 (27.11.03), & AU 2003235360 A1	1-7
P,Y	WO 03/097027 A1 (NIHON PHARMACEUTICAL CO., LTD.), 27 November, 2003 (27.11.03), & AU 2003235363 A1	1-7
P , Y	JP 2003-292450 A (Naoki HIKI), 15 October, 2003 (15.10.03), (Family: none)	1-7
·		·
		·
	·	